

1795

27668

I received and filed this instrument for record on the 21 day of May 1908 at 2:30 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
Verance R. Crouse, County Recorder
 By A. Billings Deputy
 Fee \$ 2.00 Paid

1908

			X

Deponent in Gap has paid of amount due
 of \$ 25.00 Gap has returned
 Building Area paid \$ 25.00
 Gap in Building for Building 21

RECORDED IN BOOK 1795 PAGE 27668

MISSOULA COUNTY, MONTANA

RECORDED IN BOOK 1795 PAGE 27668

MISSOULA COUNTY, MONTANA

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MISSOULA COUNTY, MONTANA

MISSOULA COUNTY, MONTANA

MISSOULA COUNTY, MONTANA

File No.

T. 13 R. 19W

DUPLICATE

County Missoula

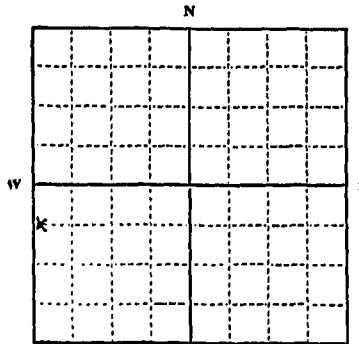
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 16 1969

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

- I, **THE MONTANA POWER COMPANY**, of **40 E. Broadway, Butte**
(Name of Appropriator) (Address) (Town)
County of **Silver Bow**, State of **Montana**, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is **municipal water supply**.
(describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed **1000 gallons per minute**.
- The annual period (inclusive dates) of intended use **Jan. 1-Dec. 31 each year**.
- The probable or intended date of first beneficial use **April 30, 1969**.
- The probable or intended date of commencement and completion of the well* or wells* **April 11, 1969 to April 30, 1969**.
- The location, type, size and depth of well or wells contemplated **Churn drilled 16" well in NW 1/4, S. 16, T13N, R19W, M.P.N.**
- The probable or estimated depth of the water table or artesian aquifer **55'**.
- Name, address and license number of the driller engaged **Glenn Camp, 1522 S. 14th W. Missoula, Montana License #7**
- Give such other similar information as may be useful in carrying out the policy of this act.



THE MONTANA POWER COMPANY

By W.W. Tallott
Vice President

NW 1/4 Sec. 16, T13N, R19W.
Locate well or other means of development as accurately as possible on the plat.

40 E. Broadway
Butte, Montana 59701

Date 5/7/69

APPROPRIATOR

- * As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

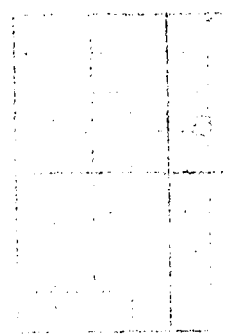
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

45,224

1884

281182

I received and filed this Instrument for
 record on the 13 day of May 1969
 at 2:44 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Vernice R. Crouse, County Recorder
 By Keith N. Smith, Deputy
 Fee \$ 2.00 Paid Ch



File No.

T. 13N R. 19W

DUPLICATE

County Missoula

MONTANA WATER RESOURCES BOARD

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

LOG

RECEIVED

MAY 16 1969

Top of Ground

(Elev. above sea level)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Well located on Lincoln St.
Between DeFoe and Stoddard

0-1 Topsoil and Gravel

1-33 Gravel & Clay

33-41 Boulders & Gravel

41-55 Clay & Gravel

55-65 Clay, Gravel & Water

65-1095 6" Gravel, Water, Sand

Owner MONTANA POWER CO. Address Missoula, Montana

Driller Glenn Camp Address Missoula, Montana

Date of Notice of appropriation of groundwater 5-1-69

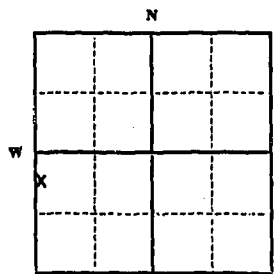
Date well started April 17, 1969 Date completed April 30, 1969

Type of well Drilled Equipment used Churn Drill
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
16" I.D.	16" I.D. 62.58 lb per ft.	2' above G.L.	109 1/2"	MILLS KNIFE 3/8" x 4"	85'	105'
				70 holes to the round - 30 round total - 300 holes		



Static Water Level for non-flowing well

Drawdown - 3' 5" 48' from G.L.

Shut-in Pressure for Flowing Well

Pumping Water Level 51.15' from G.L.

at 1000 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Test Pump

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff)

4 sacks of cement put in

bottom, 2' cement plug in

bottom of pipe

NW 1/4 SW 1/4 Sec. 16 T. 13N R. 19W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

THE MONTANA POWER COMPANY

By W. J. Tallent (Continue on reverse side)

Vice President

USE - If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

40 E. Broadway
Butte, Montana 59701

APPROPRIATOR

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

License 27
Driller's License Number

Glenn Camp
Driller's Signature

45,227

1883

281181

I received and filed this instrument for record on the 12 day of May, 1967, at 8:42 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:
 Veronique R. Croose, County Recorder
 By Keith N. Smith, Deputy
 Fee \$ 2.00 Paid Dr.

Missoula County Recorder's Office
 1000
 12th Street
 Missoula, Montana 59801

12th
 12th
 12th

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—39311

File No. _____

T. 13^N R. 19^W 17

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERS
FEB 10 1965

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Coffee's Drug Co., Inc Address Missoula, Montana

Driller Glenn Camp 705 Alder Address Missoula, Montana

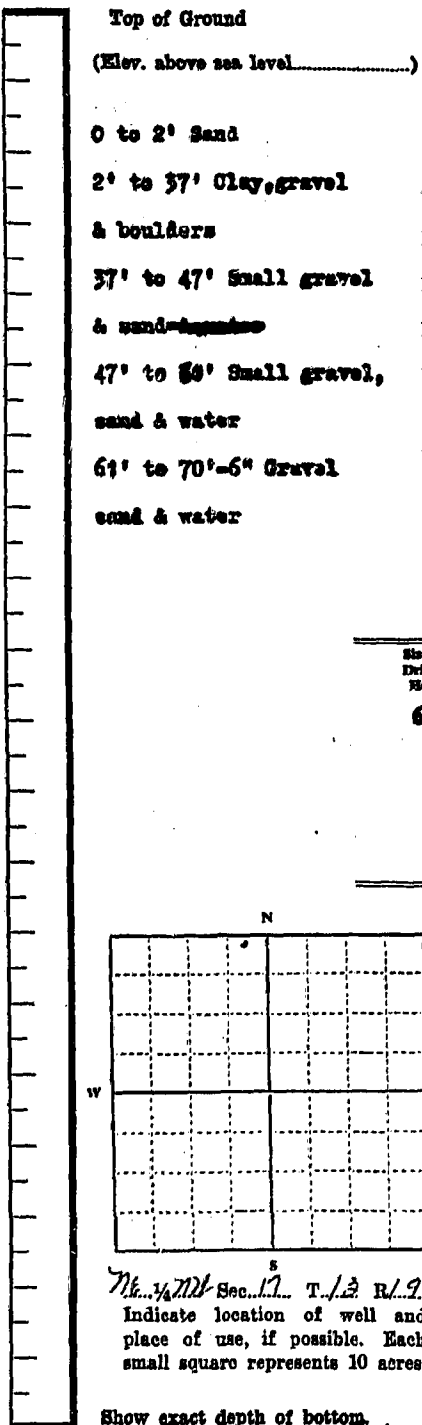
Date of Notice of Appropriation of Groundwater _____

Date well started Oct 31, 1964 Date Completed Nov 4, 1964

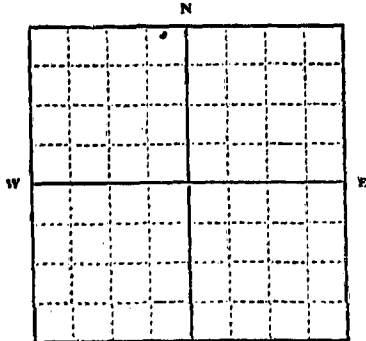
Type of well drilled _____ Equipment Used Shank Drill
(dug, driven, bored or (Churn, drill, rotary or drilled) other)

Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind and Size	From (Feet)	To (Feet)
6"	6" I.D.	14" above G.L.				
	19.97' to feet	to 71'-9"				



N. 1/4 Sec. 17, T. 13 R. 19
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 32 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 35 feet at 25 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Compressor Length of Test 1 hr
Compressor drew 75 to 100 G.P.M.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) _____

Show exact depth of bottom
Located on Tab 4, Reel 1 Addn # 2

License # ?
Driller's License Number
Glenn Camp
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.
Please answer all questions. If not applicable, so state, otherwise the form will be returned.
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

28948

474

282426

I received and filed this instrument for
 record on the 5 day of Feb 1968
 at 11:00 o'clock A.M. permanent files
 of Miscouli County, State of Montana
 Witness my hand:
Vermae R. Crouse County Recorder
 By Edward J. Miller Deputy
 Fee \$ 1.00 Paid cash

RECORDED
 INDEXED
 FEB 10 1968
 MONTANA COUNTY RECORDERS
 MISSOULA, MONTANA

PER 10 1968

O

File No. _____

JUL 29 1966

T13N R-19W

DUPLICATE

Billie _____ McDermott _____ County MISSOULA
 Butzerin _____ McNulty _____
 Coyle _____ Morley _____
 Darlington _____ Sullivan _____
 Dickert _____
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

LOG

Top of Ground



(Elev. above sea level _____)
 25' cobble gravel and clay
 17' clay and boulders
 23' water, coarse sand and gravel

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Commercial Leasing Ltd Address Missoula

Driller Kenn Water Well Drilling Address St. Regis

Date of Notice of appropriation of groundwater 7/30/65

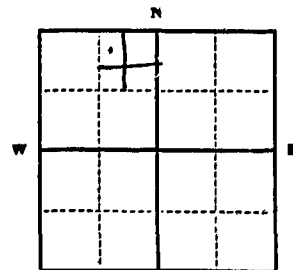
Date well started 8/9/65 Date completed 8/11/65

Type of well drilled Equipment used churn
 (Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" id	6" id 194	+18"	65'	does not apply		



Static Water Level for non-flowing well 23 feet.

Shut-in Pressure for Flowing Well 2

Pumping Water Level 34 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well 1

How Tested bailed & pumped

Length of Test 11' clear

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

Lot 1 Block 5
 Res. Riv. #3
 NW 1/4 Sec. 17, T13N R19W

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

65' Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

23 Driller's License Number

Eugene H. Fene
Driller's Signature

41258

Well #1

1627
O

252458

I received and filed this instrument for
 record on the 26 day of July, 1966
 at 11:10 o'clock P.M. (permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Veramos E. Crouse, County Recorder
 By M. M. Crouse Deputy
 Fee \$ 2.00 Placed

MISSOULA COUNTY, MONTANA
 RECORDS DEPARTMENT
 100 WEST 10TH AVENUE
 MISSOULA, MONTANA 59801
 PHONE 542-2111
 FAX 542-2112

File No. MONTANA WATER RESOURCES BOARD

T. 13. R. 19

DUPLICATE

RECEIVED

County Missoula

LOG NOV 1 1957

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground _____

(Elev. above sea level _____)

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1952

(Under Chapter 237, Montana Session Laws, 1961)

0-8 Slit
 8-21 Rock with red clay
 21-25 Water, rock, gravel & clay
 25-45 Clay & gravel
 45-52 Sand, some water
 52-60 Clay & gravel
 60-69 Sand, gravel & water
 69-74 Clay & gravel
 74-80 Gravel, sand & water
 80-89 Gravel, sand & water
 89-94 Sand, gravel, & a little clay & water
 94-99 Sand, gravel & water
 99-113 Clay, boulders & no water
 113-115 Clay, boulders, & no water
 115-118 Gravel, boulders & water

Owner: John R. Dally, Inc Address: Missoula, Montana
 1522 S. 14th W.
 Driller: Glen Camp Address: Missoula, Montana

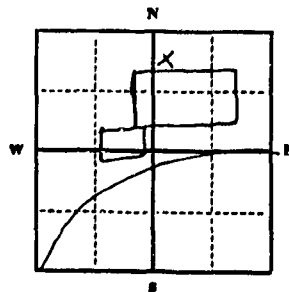
Date of Notice of appropriation of groundwater _____
 Date well started: Oct. 7, 1957 Date completed: Oct. 21, 1957

Type of well: Drilled Equipment used: Churn Drill
 (Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
8" I.D.	2 1/2" O.D.	2' above D.L.	120'	Mills Knife 1/2 x 3"	89' from 892'	91' 101'
				Total of 77 holes 11 rounds of holes 7 to the round		



Static Water Level for non-flowing well _____ feet.
 Shut-in Pressure for Flowing Well _____ from top of casing
 Pumping Water Level _____ at 500 GPM
 Discharge in gal. per min. of flowing well _____

How Tested: Air Comparison
 Length of Test: 14 hours
 Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

Sec. 17 T. 13 R. 19
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

License # 7

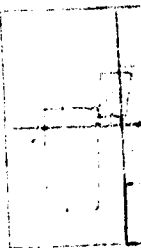
Driller's License Number

Glen Camp
Driller's Signature

1748

265306

I received and filed this instrument for
 record on the 30 day of Aug, 1967
 at 2:00 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Varance R. Crouse, County Recorder
 By Doretha R. [Signature], Deputy
 Fee \$ 0.00



MISSOULA COUNTY RECORDS
 MISSOULA, MONTANA

File No. _____

RECEIVED

T 13N R 19W

JAN 21 1968

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground Approx. (Elev. above sea level 3210')

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Formations Log:

- 0 - 4" Asphalt.
- 4" - 7" Gravel fill.
- 7 - 18 Silty sand and gravel.
- 18 - 37 Gray sand.
- 37 - 44 Tan sandy clay
- 44 - 49 Cobblestones imbedded in clay.
- 49 - 54 Gravel mixed in tan silt.
- 54 - 66 Cobblestones & boulders imbedded in clay.
- 66 - 71 Silty sand and gravel.
- 71 - 76 Clean coarse sand and gravel.

Owner Don's Market, Inc. Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 6/21/67 Date completed 6/21/67

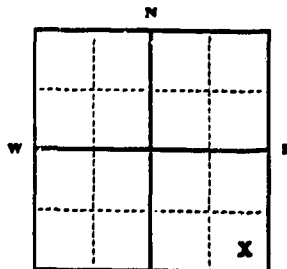
Type of well DRYAN Equipment used Wall Driving rig
(Dug, driven, bored or drilled) (Chain drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Water rises in the well 14'6" from surface.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6"	6 5/8" OD x 1/2"	0	76	Torch Cut	72	75



Static Water Level for non-flowing well 14'6" feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 54 feet at 60 gal. per minute.

Discharge in gal. per min. of flowing well None-flowing

How Tested Air Lift Pump

Length of Test Six hrs.

Lots 1 & 2, part lots 47 & 48, Block 12, McCormick Addition Number Two

SE 1/4 Sec. 17, T13N R19W. Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Remarks: (Gravel packing, cementing, packers, type of shutoff) The lower three feet of casing is perforated and all water entering the well is coming through these perforations. Wells in this area can be depended upon to produce clear sand free water year after year as long as they are not overpumped, i.e., they (Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

Bottom of hole 76'

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's License Number

William F. Osborne
Driller's Signature.

42,780

1773

267545

I received and filed this Instrument for
 record on the 22 day of Jan, 1968
 at 10:05 o'clock A.M. permanent files
 of Missoula County, State of Montana.
 Witness my hand:
 Vermae R. Crouse, County Recorder
 By M. A. Crouse, Deputy.
 Fee \$ 2.00 Pat

should be pumped at rates less than 25 to 50 percent of the tested
 capacity of the aquifer.

RECORDING SECTION MISSOULA, MONT.
 1968 JAN 22 10 05 AM

100% of existing production
 for type of pump, size of pump, etc.
 Remarks: General description of aquifer, depth,
 location of test, etc.

How tested: (See page 100)

Depth of test: (See page 100)

Location of test: (See page 100)

Remarks: (See page 100)

Department of Water Resources
 Administration
 Division of Geology and Earth Resources
 Missoula, Montana

ADMINISTRATIVE OFFICE
 STATE OF MONTANA

711 1 1968

1773

File No. _____

T 13N R 19W 17

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED

County Missoula

LOG

MAR 13 1965

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level 3300')

Approx. Formations Log:

0 - 4 Top sandy soil.

4 - 12 Cobblestones & boulders mixed in tan clay.

12 - 55 Some gravel imbedded in tan sandy clay.

55 - 77 Fine sand & gravel.

77 - 81 Clean coarse gravel. Water.

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Larry E. &

Owner Carol J. Israel Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 5/12/65 Date completed 5/13/65

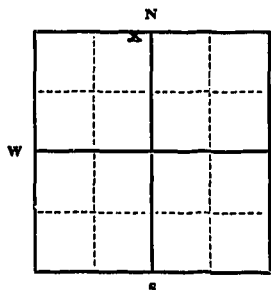
Type of well Drilled Equipment used Cable Tools
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x 1/4"	0	81	NONE		

Water rises in the well 31 feet from surface.



Static Water Level for non-flowing well 31 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level..... 60 feet at +100 gal. per minute.

Discharge in gal. per min. of flowing well Non-flowing

How Tested..... Air Lift Pump

Length of Test..... Two hours

S 1/2 Sec. 8, N 1/2 Sec. 17

1/4 Sec. T. 13N, 19W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through the open bottom of six inch casing wells in this area can be depended upon to produce clear sand-free water year after year if not overpumped, i.e., they should be pumped at rates not in excess of 50 to 75 percent of tested capacity of aquifer. (Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Lot 9, Block 2, Reely Addition #2

Show exact depth of bottom.

Bottom of well 81'

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

52

Driller's License Number

William F. Dalane

Driller's Signature

45,059

1863

279420

I received and filed this instrument for
 record on the 10 day of Mar, 1969
 at 1:55 o'clock P.M., permon filed
 of Missouri County, State of Montana
 Witness my hand:
Vernon R. Grouse County Recorder
 By Spitz N. Smith Deputy
 Fee \$ 2.00 Paid Cash

15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

Financial Institutions Co.
 MISSOURI'S HOURS

Refer to the...

How To...
 If you wish to file...

File No. _____

T. 13 N. R. 19 W

DUPLICATE

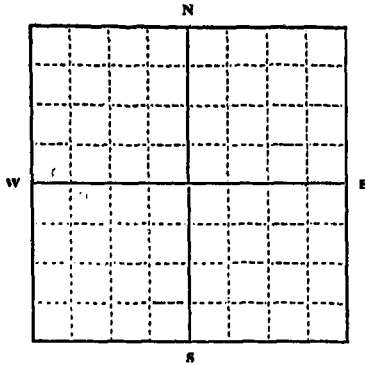
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

I, David J. MacLay, of 828 Ronald Ave Missoula, Mont.
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec 17 T. 13 N. R. 19 W

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

Point of appropriation for:
No 1: L 4 B 20, Homevale Add.
No 2: L 2 B 48, Carline Add.
No 3: L 7 B 3, Maniloba add.

- The beneficial use on which the claim is based domestic, commercial, irrigation.
- Date or approximate date of earliest beneficial use; and how continuous the use has been Not May 1937 used continuously. No 2 1946 used continuously. No 3 Nov. 1957 - used continuously.
- The amount of groundwater claimed (in miner's inches or gallons per minute) 15 Miner's inches per well.
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof No 2 well used to irrigate yards of 5 homes located on Blks 48, 49 & 49 of Carline Add.
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal No 1 located on lot 4, B 20 Homevale Add. No 2 located on lot 2, B 48 Carline Add.; No 3 located on lot 2, B 3 Maniloba add. All additions on file of recorder - County Clerk, Recorder.
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater No 1 1937; No 2 1946; No 3
- The depth of water table 27' for Nos 1 & 2, 29' for No 3.
- So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater No 1 - 6 casing 60; No 2 - casing 67; No 3 - casing 95.
- The estimated amount of groundwater withdrawn each year 15 miner's inches continuously for wells No 1 & 2; 7 miner's inches for well No 3.
- The log of formations encountered in the drilling of each well if available None Available.
- Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None Available.

Signature of Owner David MacLay

Date Dec 31, 1963.

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

1/12

Copy

Statement for
ms. 21st Dec 1962 permanent files
 of the County State of Montana
 Witness my hand
 County Recorder
 By *Margie S. Baker* Deputy
 Fee \$ *5* Paid

1962

0

Ms. 21st - Grand 13

Ms. 21st - Grand 14

Ms. 21st - Grand 15

Ms. 21st - Grand 16

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Ms. 21st - Grand 98

Ms. 21st - Grand 99

Ms. 21st - Grand 100

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL APR 30 1971

Developed after January 1, 1962

DRILLER'S LOG
Indicate the character, color, thick-
ness of strata such as soil, clay, sand,
gravel, shale, sandstone, etc. Show
depth at which water is found and
height to which water rises in well.

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed
by the owner with the County Clerk and Recorder in the county in
which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the
form may be returned.

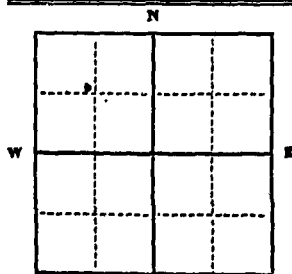
Owner Floyd and
Ruth L. Mauth
Address 1925 River Road
Missoula, Montana
Date well started 4/5/71
completed 4/6/71

For Administrator's Use	
File <u>302005</u>	<u>April 28, 1971</u> <u>3:30 P.M.</u>
GW 1	

Type of well Drilled
(Dug, driven, bored or drilled)
Equipment used Cable tools
(Churn drill, rotary or other)
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other Garden/Lawn

*Describe
USE: If used for irrigation, industrial, drainage or other. Explain,
state number of acres and location or other data (i.e. Lot, Block
and Addition). Lot 8 Block 2 Reely Addition
#2
ESTIMATED ANNUAL WITHDRAWAL 52,560,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6"	6 5/8" OD x 1/2"	+2'	86	N	O	N E



5 1/2 Sec 6 & N 1/2 Sec 17
1/4 Sec
T. 13N R. 19W E
S W

Static water level 35 ft.*
Pumping water level 63 ft.*
at 100 gallons per minute,
measured 3 hours after pumping
began.
*Measured from ground level.
Well developed by Air Lift
for 3 hours. Pump
Power Diesel Pump 150 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) All
water entering well
through open bottom
of six inch casing.
Wells in this area cont.

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature William J. Calma
Driller's Address 2500 Reserve Street
Missoula, Montana LICENSE NO. 52

Top of Ground (Elev. above sea level)		Approx. 3180'
From (Feet)	To (Feet)	
0	2	Brown sand
2	11	Gravel and cobblestone Embedded in tan silt
11	29	Tan clay and gravel
29	43	Sand and gravel im- bedded in tan silt
43	54	Silty sand. Some silty water
54	58	Tan clay and gravel
58	63	Silty sand and gravel
63	67	Tan clay and gravel
67	76	Silty sand and gravel
76	77	Tan silty clay
77	83	Fine silty sand and gravel. Silty water. Formations too fine to successfully develop well
83	86	Clean coarse gravel water.

86 ft. Show exact depth of bottom
water rises in well 35 feet
from surface.

48406

2118

302005

I received and filed this instrument for
 record on the 25 day of April, 1971,
 at 3:30 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand.
Veranda R. Crouse, County Recorder
 By M. M. Cunningham, Deputy
 Fee \$ 2.00 Paid cash

can be depended upon to produce clear sand free water year after
 year as long as they are not overpumped, i.e.: they should be
 pumped at rates not in excess of 50 to 40 percent of the tested
 capacity of the aquifer.

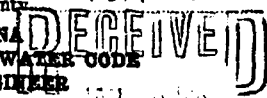
File No.

T 13^N R 19^W

DUPLICATE

County MS14

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER



Notice of Completion of Groundwater Appropriation by Means of Well ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)



Top of Ground
(Elev. above sea level.....)

- 0 to 3' Sandy Clay
- 3' to 19' Gravel, clay & boulders
- 19' to 25' Gravel, sand & water
- 25' to 39' Clay & gravel
- 39' to 58' Sand, gravel & water
- 58' to 60' Gravel & water

Owner Mary Mohland Address Millan Road

Driller Glenn Camp 705 Alder Address Missoula, Mont

Date of Notice of Appropriation of Groundwater.....

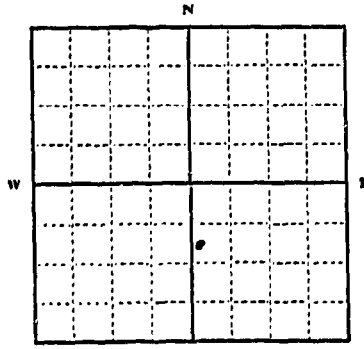
Date well started Dec 29, 1964 Date Completed Dec 31, 1964

Type of well Drilled Equipment Used Churn Drill
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	5" I.D. 18.97# to ft	1' above G.L. to 61'				



1/4 Sec. 17 T. 12 R. 19
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well..... 28 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level..... 29 feet at 15 gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested TEST PUMP Length of Test 1/2 hr

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation).....

Licence # 7
Driller's License Number
Glenn Camp
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

38863

1469

23/269

I received and filed this Instrument for
 record on the 10 day of Jan 1965
 at 11:15 o'clock P.M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Varanos B. Crouse, County Recorder
 By W. W. Crouse, Deputy
 Fee \$4.00

RECORDED TO RECORD COPY TO STATE
 DEPARTMENT OF REVENUE

RECORDED TO RECORD COPY TO STATE
 DEPARTMENT OF REVENUE

RECORDED

File No. _____

TRIPPLICATE

T 13 N R 19 W 17

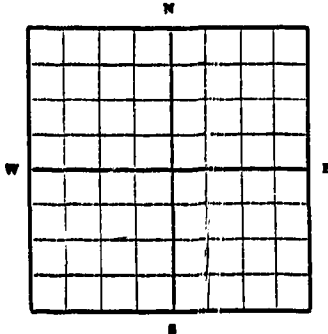
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 19 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. MISSOULA HOTEL, of US 10 & 93 West Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec 7 T. R.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

Block 28
Manitoba Addition

2. The beneficial use on which the claim is based Complete
water needs for Hotel & Lounge

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
Well #1 Continuous Since 1947
Well #2 Continuous Since 1959

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Well #1 20 Gallons Per Minute
Well #2 25 Gallons Per Minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not Applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Well #1 Jet Pump
Well #2 Turbine Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well #1 Commenced 1947 Completed 1947
Well #2 Commenced 1959 Completed 1959

8. The depth of water table Estimated at 43' for both wells

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Well #1 - 8" Casing - Drilled 95' 6"
Well #2 - 8" Casing - Drilled 95' 6"

10. The estimated amount of groundwater withdrawn each year 10 million gallons

11. The log of formations encountered in the drilling of each well if available Not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

ROBERT L. RIEFFLIN

Signature of Owner Robert L. Riefflin

Date 12-18-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

10429

431

214451

copy
I received and filed this instrument for
record on the 16 day of Dec, 1963
at 1:00 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Etzel Stone Deputy
Fee \$ 2.00 Paid

File No. _____

T. 13N R. 19W

DUPLICATE

RECEIVED

County Missoula

LOG

APR 9 1971

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

01'	Top of Ground (Elev. above sea level _____)
01'	tan clay, sand, gravel & boulders
30'	
30'	brown clay, sand & gravel
38'	
38'	sand, silt & water
45'	
45'	tan clay
47'	
47'	sand, silt & water
56'	
56'	tan clay
57'	
57'	sand, silt & water
68'	
68'	tan clay
69'	
69'	sand, silt & water
78'	
78'	brown clay
80'	
80'	sand, silt & water
87'	
87'	sand, gravel & water
90'	

Owner PACIFIC HILL & FUR Address _____

Driller LEO KRUSE Address 740 TURNER MISSOULA, MONT. PA.

Date of Notice of appropriation of groundwater _____

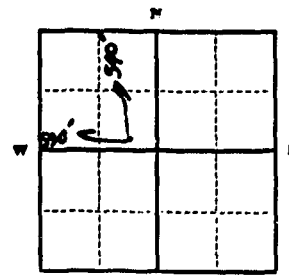
Date well started MARCH 25, 1971 Date completed MARCH 27, 1971

Type of well drilled Equipment used CHURN
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6" I.D.	6-5/8" OD	ground	90 ft.			
		17 lbs. level				
		1/4" side-wall				



Static Water Level for non-flowing well 45 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 75 feet at 60 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested ball & compressor test

Length of Test 6 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

Sec. 14 T. 13N R. 19W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Log No. 301150
Filed for record
6th day of April
1971 at 10:30

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

193
Driller's License Number

Leo Kruse
Driller's Signature

48320

2108

301150

I have received and filed this instrument for record on the 11 day of April, 1921, at 10:30 o'clock A.M., permanent files of Missouri County, State of Michigan.

Witness my hand
Verano E. Cronce, County Recorder
 By 221 221 Deputy
 Fee \$ 2.00 Unpaid

500

500

500

MISSOURI COUNTY, MICHIGAN
 DEPARTMENT OF RECORDS
 121 N. W. 1st St.
 P.O. Box 100
 Alpena, Mich.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Number of feet of tape
 How long is the tape
 How long is the tape
 How long is the tape

301150

File No. _____

JUL 29 1966

T. 13N R. 19W

DUPLICATE

Bliss _____ McDermott _____
 Butcher _____ McNulty _____
 Coyle _____ Morton _____
 Darlington _____ Sullivan _____
 Dickert _____

County Missoula

LOG

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level.....)

- 21' cobble gravel and sand
- 16' 2" cobble gravel and boulders
- 30' pea gravel & sand and water

Notice of Completion of Groundwater Appropriation by Means of Well DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner LA GRETA L. REELY Address MISSOULA

Driller Gene Water Well Drilling Address St. Regis

Date of Notice of appropriation of groundwater..... 7/30/65

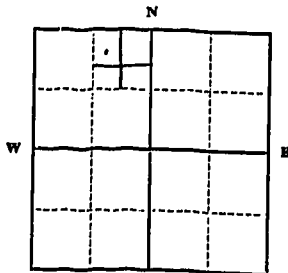
Date well started..... 8/11/65..... Date completed..... 8/14/65

Type of well drilled..... Equipment used..... churn
 (Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" id	6" id 19#	+28 "	67	does not apply		



Static Water Level for non-flowing well 29 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level..... 33 feet at..... 30 gal. per minute.

Discharge in gal. per min. of flowing well 1

How Tested bailed and pumped

Length of Test..... til clear

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

Lot 4 Block 6
Reely Add. #4
N. 13 N. Sec. 17. T. 13 N. R. 19 W.
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

67 Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

23 Driller's License Number

Eugene L. Kern
Driller's Signature

Well #2

41254

131

252459

I received and filed this Instrument for record on the 26th day of July 1966 at 11:30 o'clock A.M. Bertha M. Hiles of Missoula County, State of Montana

Witness my hand:
 Verance R. Crouse, County Recorder

By *M. M. Conroy* Deputy
 Fee \$2.00 *Pat*

Recorded in Book
 of 2008 Page 1501

Examined & Corrected
 by *M. M. Conroy* Deputy

Fee \$2.00

File No. _____

JUL 29 1966

T. 13N. R. 19W

DUPLICATE

LOG

Bille _____ McDermott _____
Butzerin _____ McNulty _____
Coyle _____ Merton _____
Darlington _____ Sullivan _____
Pickert _____

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level _____)

40'
28'

gravel, sand and clay with boulders
sand, gravel, and water

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner LAGRITA L. REELY Address Missoula

Driller Kane Water Well Drilling Address St. Regis

Date of Notice of appropriation of groundwater 3/22/66

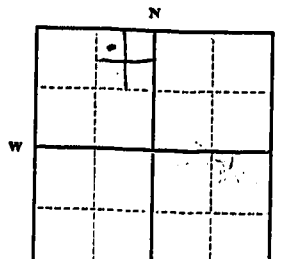
Date well started 3/22/66 Date completed 3/25/66

Type of well drilled Equipment used 1 1/2" down
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" id	6" x 250	0	68	does not apply		



Static Water Level for non-flowing well 40 feet.

Shut-in Pressure for Flowing Well 2

Pumping Water Level 44 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well 2

How Tested balled and pumped

Length of Test til clear

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

Lot 3 Blk 5
Reely Addn. #4
NW 1/4 Sec. 17, T. 13N. R. 19W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

68 Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

33
Driller's License Number
Eugene H. Lane
Driller's Signature

1628

252456

I received and filed this instrument for
 record on the 26 day of July, 1966.
 at 11:15 o'clock A.M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Vermae H. Crouse, County Recorder
 By M. Corraugh Deputy
 Fee \$2.00

SEARCHED INDEXED
 SERIALIZED FILED
 JUL 26 1966
 MISSOULA COUNTY, MONTANA
 REC'D
 MISSOULA, MONTANA
 JUL 26 1966
 MISSOULA COUNTY CLERK

File No. _____

DUPLICATE

RECEIVED
MAY 20 1964

Approved Stock Form—State Publishing Co., Helena, Montana—42234

T. 13^N R. 19^W - 17

County _____

Location 7

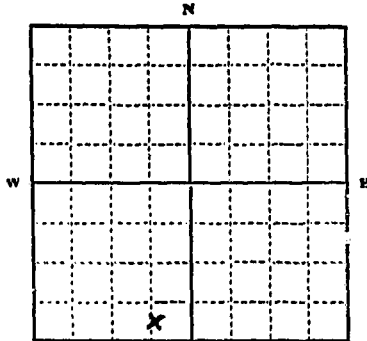
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Vernon Sautler, of 2030 River Road Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



10 1/2 SW 1/4
Sec. 17 T. 13 R. 19

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based. For irrigating and used in several houses.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. since 1896 continuous in household use and in later years since 1948 to irrigate acreage.
4. The amount of groundwater claimed (in miner's inches or gallons per minute). at times up to 40 gallons a minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. It has been used on approximately 3 acres plus several houses
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. 12 horse power electric motors to run pump on property described above left.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. the earliest date of well is 1896, and remodled in 1939
8. The depth of water table. at times approximately 14 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. well is made of 6 inch casing steel pipe, 50 feet deep.
10. The estimated amount of groundwater withdrawn each year. 500,000 gallons
11. The log of formations encountered in the drilling of each well if available. gravel and rocks
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. I have none that I know of.

Signature of Owner Vernon Sautler

Date 12/20/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19959

215-167

354

Copy

I received and filed this instrument for record on the *20* day of *June* 19*63* at *1:57* o'clock *P.*M., permanent file of Missoula County, State of Montana

Witness my hand:
 MARTIN E. BEHNER, County Register
 By *Martin E. Behner*
 Fee \$ *2.00* Paid

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Gordon E. Sorenson & Malyn R. Johnson
208 N. 2nd St. - 2nd Fl.
Address Hwy 10
 Missoula, Mont. 59801
Date well started April 19, 1973
completed April 20, 1973

For Administrator's Use	
File <u>2554 334243</u>	Date <u>June 29, 1973</u>
Well No. <u>GW 1</u>	Date <u>10.20.1971</u>

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0	10	Large Cobbles/Black Dirt
10	12	Gravel & Cobbles
12	15	Gravel & Clay
15	24	Gravel & Sand
24	32	Sand Packed
32	37	Gravel & Sand
37	61	Gravel (Water)

Type of well Drilled
(Dig, driven, bored or drilled)

Equipment used Churn Drill
(Churn drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation

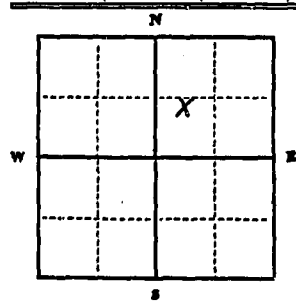
Industrial Drainage Other Garden/Lawn

*Describe Secs Comm'l office Bldg. yard in front of lot

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6" ID	6" ID 17 lb per ft. gal.	0'	61'			none



Static water level 40 ft.*
Pumping water level 40 ft.*
at 20 gallons per minute,
measured 1 minutes after pumping
began.
*Measured from ground level.
Well developed by Pump & Compressor
for 3 hours.
Power 5.182 Pump 3/4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

SW 1/4 NE 1/4 Sec. 17
T. 13 N. R. 19

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES

Driller's Signature Phil Bette
Driller's Address CAMP WELL DRILLING & PUMP SUPPLY
1522 S. 14th W. Missoula, Montana 59801

54888

554 334242
I received and filed this instrument for
record on the 29th day of June 1913
at 10:30 o'clock A. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By Cecilia M. DePue Deputy
Fee \$2.00 Paid

File No.

T 13 R 19 N 17

DUPLICATE

MS19
DECEIVED
MAR 2 - 1965

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: George F. Steinbranner Address: Beoly Addition
Robert E. Jones

Driller: Glenn Camp 705 Alder Address: Missoula, Montana

Date of Notice of Appropriation of Groundwater:

Date well started: 2/5/65 Date Completed: 2/12/65

Type of well: Drilled Equipment Used: Churn drill
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Top of Ground
(Elev. above sea level))

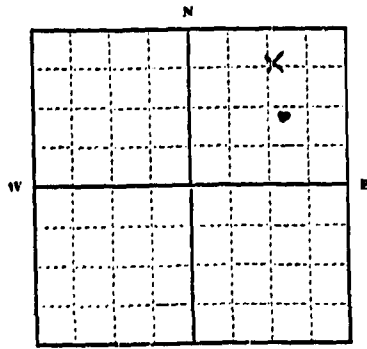
0 to 6' Sandy Clay
6 to 20' Tight clay & gravel
20' to 45' Loose clay & gravel
45' to 57' Loose clay & gravel
57' to 70' Sandy clay
70' to 84' 75' Sand, gravel & water
75' to 84' Sandy clay

7 1/4 Sec. 7 T. 19 N. R. 17 E.

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 18.97 # to foot	18" above G.L.	to 77'-3"	None		



Static Water Level for non-flowing Well: 42' from G.L. feet.

Shut-in Pressure for Flowing Well:
with a test pump

Pumping Water Level: 44' feet at 60-15 gal. per minute.

Discharge in gal. per min. of flowing well:

How Tested: Compressor Length of Test: 1 HOUR

Remarks: Compressor test approx 50 G.P.M.
(Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

License # 7
Driller's License Number
Glenn Camp
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

97

733296

I received and filed this instrument for
 record on the 27 day of Feb. 1925
 at 10:15 o'clock A.M. permanent files
 of Missoula County, State of Montana
 Witness my hand
 Vermon R. Couse, County Recorder
 By [Signature] Deputy
 Fee \$ 1.00 Paid 1.00

C

RECEIVED
 NOV 1925
 REGISTER

GW

File No.

T. 13 N. R. 19 W

DUPLICATE

County Missoula

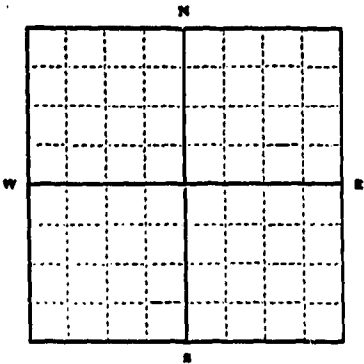
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 2 1964

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Veterans of Foreign Wars
1. Class 209 V.F.W. of Box 428, Missoula, Montana
(Name of Appropriator) (Address) (Town)
County of Missoula, Montana State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec 17 T. 13 R. 19
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based Irrigation
Trailer Court
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Prior to 1950
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 lots & Trailer Court
lots are 190 by 300 ft
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 10 lots
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1950
- 8. The depth of water table. 30 to 35'
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Drilled well, 6" casing and 1 1/2" 30' deep
- 10. The estimated amount of groundwater withdrawn each year. For trailer court and irrigating lots.
- 11. The log of formations encountered in the drilling of each well if available. 0 to 1' top soil, 1' to 41' gravel, boulders & clay, 41' to 62' Sandy clay, water & sand, 62' to 83' Sandy clay, water & a little gravel, 83' to 90' Gravel, sand & water.
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Chas. B. Best 209
Veterans of Foreign Wars
Signature of Owner Charles B. Best
Date 2/31/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

17664

274

215347
Copy

I received and filed this instrument in
 record on the 3rd day of Dec 1963
 at 7:49 a.m. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEAVER Deputy Recorder
 By *Martin S. Beaver* Deputy
 Fee \$ *2.00* Paid

11-11-63

MISSOULA COUNTY, MONTANA
 DEPUTY RECORDER
 MARTIN S. BEAVER
 11-11-63

GW 2

File No.....

T. 13 R. 19

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

RECEIVED
JUN 13 1962

Notice of Completion of Groundwater Appropriation by Means of STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

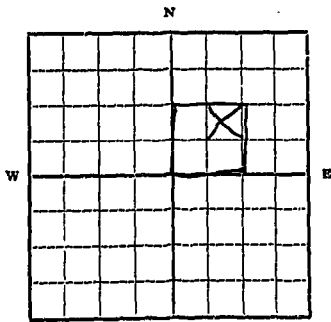
Top of Ground
(Elev. above sea level.....)

0 to 17' **Dug hole**
17' to 47' **Sandy clay & Gravel**
47' to 60' **Sand Clay & water**
60' to 69' **Sand & water**
69' to 80' **Clay & some gravel**
80' to 82' **Sand, gravel and water**

Owner Marous Wolf Address 1720 Houston
Missoula
Driller Glenn Camp 705 Alder Address Missoula
Date of Notice of Appropriation of Groundwater Does not apply
Date well started 4/24/62 Date Completed 4/26/62
Type of well Drilled Equipment Used Churn drill
(dug, driven, bored or drilled) (Churn, drill, rotary or other)
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	seamless 19 lb pipe	6" above pit floor to	75'-6"	None		



S.W. 1/4 N.E. Sec. 17, T. 13, R. 19, W

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 40 from D.L. feet.
Shut-in Pressure for Flowing Well Does not apply
Pumping Water Level 50 feet at 60 gal. per minute.
Discharge in gal. per min. of flowing well Does not apply
How Tested Compressor Length of Test 2 hours
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) None

License # 7
Driller's License Number

Glenn Camp
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

#135

194133

I received and filed this instrument for record on the 11th day of June, 1962 at 11:25 o'clock A.M., permanent filed of Missoula County, State of Montana. Witness my hand: **MARTIN S. BEHNER**, County Recorder. By Barthelme Head, Deputy. Fee \$ 2.00 Paid.



Disposition by 501 per min. of section 101-10.3 of Montana Code
 Disposition by 501 per min. of section 101-10.3 of Montana Code
 Disposition by 501 per min. of section 101-10.3 of Montana Code
 Disposition by 501 per min. of section 101-10.3 of Montana Code
 Disposition by 501 per min. of section 101-10.3 of Montana Code

43 In witness whereof I have signed my hand and seal of office at Missoula, Montana, this 11th day of June, 1962.

[Faint, mostly illegible text, likely a list or inventory of items.]

[Faint, mostly illegible text, possibly a signature or additional note.]

No.

T. 13 N. R. 19 W. 17

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

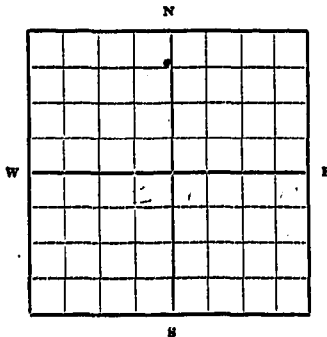
RECEIVED
DEC 26 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Wright Lumber Company of Box 1529 Missoula
(Name of Appropriator) (Address) (Town)

County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 NW 1/4 Sec. 17, T. 13, R. 19

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based Domestic, fire protection, and general use in connection with lumber and sawmill business.
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been December, 1952
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 125 gallons per min.
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump located on Lot 18, Block B, N. P. Industrial site (not platted) in N1N1, Sec. 17, Twp. 13 N.R. 19 W.
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well started Nov. 1, 1952 and completed Dec. 1952.
- 8. The depth of water table 30 feet, approximately.
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Type - Electrical jet pump 8" casing and total depth of 120 feet., using 5 horsepower electric pump.
- 10. The estimated amount of groundwater withdrawn each year Estimated use: 500,000 gals. per year.
- 11. The log of formations encountered in the drilling of each well if available
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

WRIGHT LUMBER COMPANY
Signature of Owner [Signature]
President
Date December 19, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

12351

531

214782

I received and filed this instrument for
 record on the 23 day of Dec 1943
 at 14 o'clock P. M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEINER, County Recorder
 By Ethel Gamm Deputy
 Fee \$ 2.00 Paid

MISSOULA

MISSOULA COUNTY

RECORDS

1943

MISSOULA COUNTY RECORDS
 MISSOULA, MONTANA
 DEPARTMENT OF REVENUE
 MISSOULA, MONTANA

GW

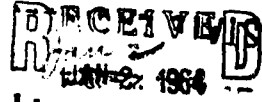
File No.

T. 13 N. R. 19 W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

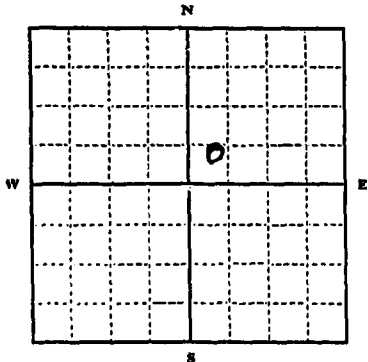


Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HARVEY F. CLOUSE, of Rt # 2 MISSOULA
(Name of Appropriator) (Address) (Town)
County of MISSOULA State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 NE Sec. 18 T. 13 N. R. 19 W

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based THIS WELL PROVIDES DRINKING WATER FOR CATTLE
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been APPROX 1930 AND CONTINUOUS SINCE
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 150 GALLONS PER HOUR
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof NOT USED FOR IRRIGATION
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal By ELECTRIC PUMP

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1970
- 8. The depth of water table 10 FEET
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater HAND DUG WELL 20 FEET DEEP
- 10. The estimated amount of groundwater withdrawn each year 500,000 GALLONS
- 11. The log of formations encountered in the drilling of each well if available NONE
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record NONE

Signature of Owner Harvey F. Clouse
Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

17647

850 215318

I received and filed this instrument for
record on the 31st day of Dec 1963
at 9:17 o'clock A. M., pursuant to law
of Lincoln County, State of Montana
Witness my hand:
MAYN S. BIRNEY County Recorder
By *M. S. Birney* Deputy
Fee \$ 2.00 Paid

GW3

File No. _____

T. 13N R. 19W

18

DUPLICATE

County MISSOULA

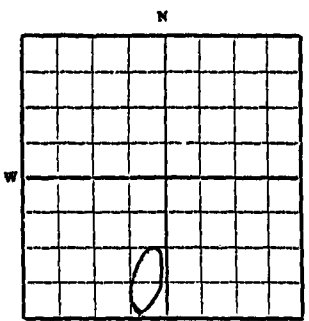
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

STATE ENGINEER
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater NOT KNOWN
Owner HARVEY F. CLOUSE Address Rt #2 MISSOULA
Contractor (if any) NONE
Address of Contractor _____
Date Started _____ Date Completed _____



Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. THIS IS A SPRING FED POND ABOUT TWO ACRES IN SIZE. IT SUB-IRRIGATES AND IS USED TO IRRIGATE BY MEANS OF PUMPING THROUGH PORTABLE SPRINKLERS

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use THIS WATER IS USED ABOUT 165 DAYS PER YEAR DURING SUMMER MONTHS

SE 1/4 SW Sec 18 T13N R19W
Indicate point of appropriation and place of use, if possible.

450,000 GALLONS PER DAY PUMPING 750 GALLONS PER MINUTE

Signature of Owner Harvey F. Clouse
Date Dec 30 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

20048

849

215 317

Copy
I received and filed this instrument for
record on the..... day of..... 1968
at..... o'clock..... M., permanent files
of Missoula County, State of Montana
Witness my hand.
MARTIN E. BRINER, County Recorder
By..... Deputy
Fee \$..... Paid

File No. _____

MONTANA WATER RESOURCES BOARD

T. 13N R. 19W 10

DUPLICATE

RECEIVED

County MISSOULA

LOG

DEC 29 1967

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level _____)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

- 0-11 Sandy Clay
- 11-48 Clay, gravel, sand water, some clay
- 48-56 Water and sand
- 56-60 1/2 Sand, gravel & Water

Owner Ed Courtney Address Across from Halligan

Driller Glenn Camp Address 1522 S. 14th

Date of Notice of appropriation of groundwater _____

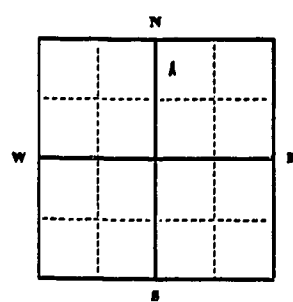
Date well started June 12, 1967 Date completed June 14, 1967

Type of well Dilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D.	4' 5" above existing G.L.	64' 11"	None		



Static Water Level for non-flowing well 21' from existing G.L. feet.

Shut-in Pressure for Flowing Well _____ feet

Pumping Water Level 22 feet
1' Draw Down at 60 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Air Compressor

Length of Test 1 1/2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

NW 1/4 of NW 1/4 Sec. 18 T. 13N R. 19W

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

License # 7
Driller's License Number

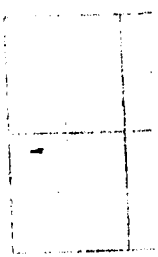
Glenn Camp
Driller's Signature Glenn Camp

42,700

1768

266877

I received and filed this instrument for
 record on the 27 day of Dec 1962
 at 2:15 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
Yvonne R. Cross County Recorder
 By Debbie A. [unclear] Deputy
 Fee \$ 2.50 Paid



C-15

File No. _____

T 13^N R 19^W

DUPLICATE

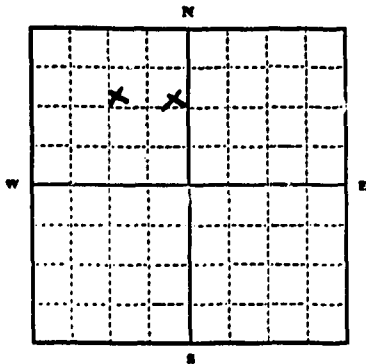
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

REC'D
JAN 3 1964

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

I, Elmer or Mary A. Flynn, of Route # 2, Missoula,
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 NW Sec. 18 T 13 R 19

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Household & Stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1870

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 Gallons per minute—each well

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1870

8. The depth of water table 45 Feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 1-6" drilled well
1-4" Drilled well

10. The estimated amount of groundwater withdrawn each year unknown

11. The log of formations encountered in the drilling of each well if available Not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record unknown

Signature of Owner Elmer Flynn

Date _____

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator. 20375

1256

Copy

I hereby certify that the instrument for
 record of the State of Dec. 19 63
 at 815 is in the permanent files
 of Missoula County, State of Montana
 Witness my hand:
 County Recorder
 By Mary S. Schaefer Deputy
 Fee \$ 2.00 Paid

File No.

DUPLICATE

Sec 18, 10⁶
13, 10⁶
24, 10⁶

T. 13^N R. 19^W

County... Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

STATE ENGINEER
Notice of Completion of Groundwater Appropriation
Without Well

SUR $\frac{1}{2}$ NW $\frac{1}{4}$ W $\frac{1}{2}$ SW (Under Chapter 237 Montana Session Laws, 1961)

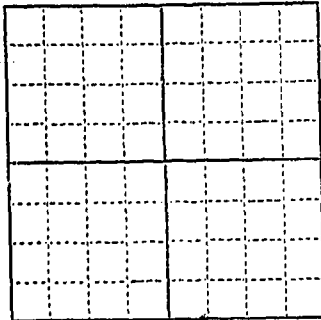
LESS R/W SEC 18 T13 R19 106 acres

SE $\frac{1}{4}$ NE $\frac{1}{4}$ E $\frac{1}{2}$ SE $\frac{1}{4}$ S13 T13 R20 100

NE $\frac{1}{4}$ NE $\frac{1}{4}$ LESS RW

SUR 24 T13 R24
Total 239 acres

more or less



Description about
..... $\frac{1}{4}$ Sec. T. R.

Indicate point of appropriation
and place of use, if possible.

Date of Appropriation of Groundwater.....

Owner William M. Hendricks Address.....

Contractor (if any)

Address of Contractor

Date Started... don't know Date Completed... don't know

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable... Ditch and

sprinklers down

water rate 50 shares

Hill Gate Valley Irrigation Company

out of Clark Fork River

Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittent
estimate amount 200 acres
estimate approximate lengths of periods of use. May 1 to

Oct 10

about 1/2 of Ranch is sub

irrigated. Call water from

ditch.

Signature of Owner. Wm Hendricks

Date. Dec 31 / 62

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

99v 215466

I received and filed this instrument
record on the 7th day of Dec 1913
at 12 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand
By Martin S. Bennett County Recorder
Deputy
Fee \$ 1.00 Paid

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File No. _____

T. 13 N R. 19 Sec 18

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

RECEIVED
AUG 21 1964

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level.....)

0 to 6' Pit

6' to 24' Clay & gravel

24' to 29' Sand, small gravel
and a seep of silty water

29' to 38' Clay

38' to 48' Clay & gravel

48' to 52' Sand, gravel
& water

Owner Mr Roy Marceau Address Kullan Road

Driller Glenn Camp 705 Alder Address Missoula, Montana

Date of Notice of Appropriation of Groundwater.....

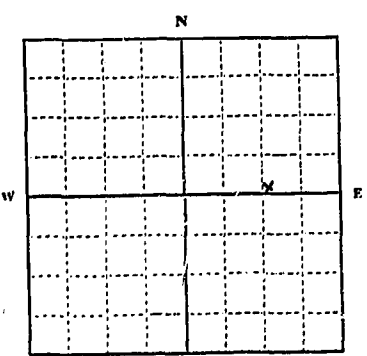
Date well started May 25, 1964 Date Completed May 27, 1964

Type of well Drilled Equipment Used Churn drill
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5"	5" I.D. 18-97 #	8" above footing	to 45'-2"		None	



SW 1/4 NE 1/4 Sec. 18 T. 13 N. R. 19
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well.....feet. 27'

Shut-in Pressure for Flowing Well.....

Pumping Water Level.....feet at.....gal. per minute. 27 20

Discharge in gal. per min. of flowing well.....

How Tested..... Test pump Length of Test..... 1/2 hour

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation).....

None

License # 7

Driller's License Number

Glenn Camp
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

38394

1435

225 232

I received and filed this Instrument for record on the 17 day of Aug, 19 64 at 9:30 a. clock A.M., permanent files of Missoula County, State of Montana
Witness my hand:
Verance S. Crouse, County Recorder
By J. O. Callings, Deputy
Fee \$ 2.00 Paid

How received by whom and how paid
Date Paid

File No. _____

T. 13 N. R. 19 W. 18

TRIPPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

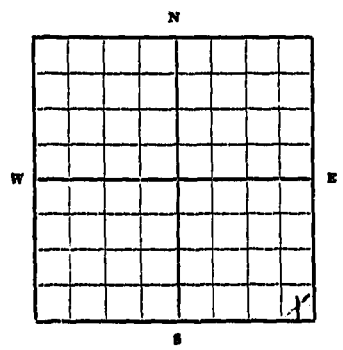
RECEIVED
DEC 9 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Kenneth M. Helen K. McCulloch, of Blitz Missoula Mont
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 SE 1/4 Sec. 18, T. 13, R. 19
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based household & yard irrigation & livestock water
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Earliest use unknown. Present use began June 23, 1953. Daily use. Judge, 1953.
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) used to begin per minute in 1953 to 2,000 gallons a day.
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof used for yard and garden irrigation and livestock water household usage. Acreage approx.
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal W.H.P. electric pump located next to dwelling house.

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Began construction in August, 1953 original well depth (10) to fifty six (56) feet. Thirty four (34) feet.
- 8. The depth of water table 25 feet (56)
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well 56 (6) inch casing. Fifty six (56) deep.
- 10. The estimated amount of groundwater withdrawn each year 600,000 gallons annually
- 11. The log of formations encountered in the drilling of each well if available 2 1/2 feet more or less sandstone. Drilling Co. 11/20/53.
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Drilling Co. 11/20/53. No other records exist.

Signature of Owner Kenneth M. Helen K. McCulloch

Date Nov 29 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

358

213798

Copy

I received and filed this instrument for
 record on the 5 day of Nov 1962
 at 8:20 o'clock P.M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By Martin S. Behner Deputy
 Fee \$ 2.00 Paid

GWS

File No.

T 13N R 19W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by McGee of Well 108
(Under Chapter 237, Montana Session Laws, 1961)

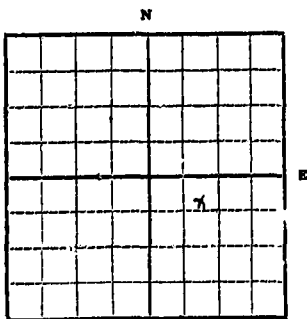
- Top of Ground (Elev. above sea level 3,150)
- 0/6 Loose gravel fill
- 6/13 Dirt & gravel, water
- 13/29 Sand & gravel
- 29/36 Gravel with some clay mixed in
- 36/39 Silt, sand & gravel seeps water
- 39/44 Gravel mixed in clay
- 44/55 Gravel & cobbles imbedded in clay
- 55/61 Coarse sand & gravel, water
- 61/65 Very coarse gravel, little sand, clean water

Owner City of Missoula Address Missoula, Montana
 Driller Liberty Drilling Co. Address Missoula, Montana
 Date of Notice of Appropriation of Groundwater None filed
 Date well started 6-23-62 Date Completed 6-29-62
 Type of well Drilled Equipment Used Cable Tools
 (dug, driven, bored or drilled) (Churn, drill, rotary or other)
 Water Use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>8"</u>	<u>82 3/8" OD x 24.6#</u>	<u>+3</u>	<u>79'9"</u>	<u>N</u>	<u>O</u>	<u>N</u>

- 65/69 Tan to brown clay
- 69/78 1/2 Sand & gravel, water



NH. 1/4. 22. Sec. 18. T13N R19W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Bottom 79'9"

Static Water Level for non-flowing Well 11'9" feet.

Shut-in Pressure for Flowing Well Non-flowing

Pumping Water Level 41 feet at 280 gal. per minute.

Discharge in gal. per min. of flowing well Non-flowing

How Tested Airlift pump Length of Test 6 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) all water requirements for operation of sewage treatment plant including irrigation

52

Driller's License Number

William F. Osborne
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

19925

696

215102

I received and filed this instrument for
 record on the 3rd day of Dec 1963
 at 10:12 o'clock A.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By [Signature] Deputy
 Fee \$ 2.15 Paid

Principal Amount Paid \$
 Special License Fee \$50.00
 Total Amount Paid for Recordation \$50.00

MISSOULA COUNTY
 RECORDS DEPARTMENT

File No. _____

T. 13N R. 19W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUN 16 1965
STATE ENGINEER

LOG

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground (Elev. above sea level) Approx. 3250'

Formation Log:

- 1 - 8 Dirt, glass, cinders & gravel.
- 8 - 18 Sand & gravel mixed in tan silty clay.
- 18 - 37 Sand & gravel mixed in tan clay. First water.
- 37 - 41 Gravel imbedded in tan silty clay.
- 41 - 51 Fine silty sand. Second water.
- 51 - 56 Gravel mixed in tan silt. Some dirty water.
- 56 - 59 Tan clay with some scattered gravels imbedded.
- 59 - 64 Silty sand mixed in tan clay.
- 64 - 68 Fine sand and gravel. Third water strata.
- 68 - 70 Clean coarse sand and gravel. Water.

Owner Missoula County Humane Society Missoula, Mont. Address _____

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None - filed

Date well started 7/30/64 Date completed 8/3/64

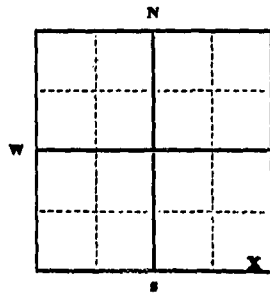
Type of well Drilled Equipment used Cable tools
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
6"	6 5/8 OD x 1/2 inch	+1' 1"	70'	NONE		

Water rises in well 11 feet from surface



Static Water Level for non-flowing well 11 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 35 feet

at 40 gal. per minute.

Discharge in gal. per min. of flowing well Non-flowing

How Tested Air Lift Pump
Length of Test Three hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All waters are entering well through open bottom of six inch casing.

SE 1/4 SE Sec. 18, T13N R. 19W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

South 124.0 ft East 1054.0 ft North 392.04 ft
see sec 18 T13N R19W

Show exact depth of bottom.

Bottom of hole 70'

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, thasue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

52
Driller's License Number

William F. Ashme
Driller's Signature

39221

1511

227841

I received and filed this instrument for
 record on the 14 day of June 1965
 at 11:00 o'clock A.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Vermae R. Crump County Recorder
 By Donna L. Binning Deputy
 Fee \$ 2.00 Paid Cash

RECORDED
 JUN 16 1965
 MISSOULA, MONTANA

18

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

DRILLER'S LOG
Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner John E. Roberts
Address Rt. 2, Mullin Road
Missoula, Montana
Date well started Aug. 11, 1971
completed Aug. 14, 1971

For Administrator's Use
File <u>306485</u>
<u>August 16, 1971</u>
<u>3:02 PM</u>

Date well started Aug. 11, 1971 GW 1
completed Aug. 14, 1971

Type of well Drilled
(Dug, driven, bored or drilled)

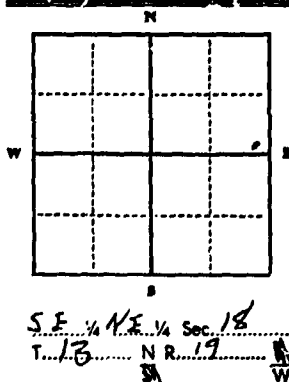
Equipment used Churn drill
(Churn drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other Garden/Lawn

*Describe
USE: if used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 2,500,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
6"	6" 17# 1 up	17	69			



Static water level 28 ft.*
Pumping water level 32 ft.*
at 75 gallons per minute,
measured 120 minutes after pumping
began.
*Measured from ground level.
Well developed by Compressor
for 54 hours.
Power Pump HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

Top of Ground		(Elev. above sea level)
From (Foot)	To (Foot)	
0	6	Topsoil
6	28	Sand, gravel and clay
28	28	Static water level
28	40	Sand, gravel, clay and water
40	52	Sand and clay
52	65	Sand, clay and water
65	69	Sand, gravel, water with traces of clay

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Charles Hellesater
Driller's Address C.K.C. Drilling, Box 670,
Missoula, Montana LICENSE NO. 185

69' Show exact depth of bottom